

L-Threonine Feed Grade

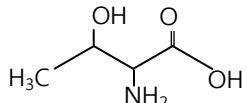
Description

Threonine is the second-limiting amino acid in a cereal-based diet fed to most animals. CJ L-Threonine Feed Grade is produced by fermentation from natural raw materials of agricultural origin (such as raw sugar or SOD). CJ L-Threonine Feed Grade promotes normal growth by helping to maintain the proper protein balance in the body, and also produced by the fermentation process which helps to maintain the animal health. This product is used only for animals.

Appearance

White or pale brownish powder

Chemical description

Chemical structure		$\begin{array}{c} \text{CH}_3\text{-CH-CH-COOH} \\ \quad \\ \text{OH} \quad \text{NH}_2 \end{array}$
Chemical formula	C ₄ H ₉ NO ₃	
Molecular weight	119.12	
Isomer	L (Laevo-rotatory)	

Guarantee

L-Threonine, %	98.5	Minimum	HPLC analysis
Moisture, %	0.5	Maximum	105°C for 4 hours
Purity, %	98.5	Minimum	L-Threonine on dry matter

Regulatory affairs

L-Threonine technically pure (L-Threonine 98.5 % Feed Grade) is registered at the Ministry of Agriculture, China. Livestock and Supply under number (2012)3135

Nutritional Specifications

Dry matter, %	99.5	Minimum	105°C for 4 hours
Threonine content, %	98.5	Minimum	HPLC analysis
Digestibility coefficient, %	100		INRA - 2002
Crude Protein, %	72.4	Minimum	Dumas Method (N % x 6.25). AOAC 968.06
GE, kcal/Kg	4,091	Average	Bomb Calorimeter

Packaging

25 kg 3 Ply Kraft Paper Bag with 1 Ply P.E inner
850 kg, P.P Woven Bag with PE laminated

Storage

Store in dry conditions and fresh place in a sealed or closed container that is to be protected from water, sunlight and heat. Avoid direct contact with floor and any source of combustion.

Stability

Product is stable for at least 2 years if stored under recommended conditions.

Kraft Paper bag unopened: product is stable for at least 2 years if stored under recommended conditions.

PP Woven bag unopened: product is stable for at least 2 years if stored under recommended conditions.

The batch number and the production date are printed on the bags.

Additional information

Complementary Information
Do not constitute any commercial guarantee

General specifications

pH	5 to 6.5	solution at 10%
Bulk density, g/ml	0.7 to 0.9	
Melting point / Decomposition temperature	256°C	
Solubility in water	9.76 g/100 g water	at 20°C

Chemical characteristics (average values based on 2012 analyses)

Nutrient Information	Average	Minimum	Maximum	STD
Dry matter, %	99.87	99.82	99.94	0.05
Crude Ash, %	0.02	0.01	0.06	0.02
Gross Energy, cal/g	4,091	4,066	4,118	18.6
Hazardous substance				
Melamin, ppm	ND			
Salmonella	ND			
BSE	ND			
Residue on ignition,%			0.4	Maximum
Specific rotation, °	-26.5 to -29.0			at 20°C, C1%, H ₂ O